



**CONESTOGA-ROVERS
& ASSOCIATES**

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October 23, 2014

Reference No. 038443

Mr. Jeff Pedro
c/o Timothy D. Hoffman, Esq.
Dinsmore & Shohl LLP
1100 Courthouse Plaza SW
10 N. Ludlow Street
Dayton, Ohio
45402

Sent Via Email and U.S. Mail

Dear Mr. Pedro:

Re: South Dayton Dump & Landfill Site Vapor Intrusion
Investigation and Vapor Abatement

As you know, a vapor intrusion investigation has been conducted and, where necessary, abatement actions have been taken at the commercial buildings located on the South Dayton Dump and Landfill Site. You will recall you signed an acceptance form dated May 15, 2013, under which a vapor abatement system was installed at the property owned and/or occupied by you.

It is our understanding that it is your desire that abatement activity be concluded. This is to advise you that the work necessary to ensure Site-related contaminant concentrations in indoor air do not exceed USEPA screening levels has been completed; however, concentrations of Site-related contaminants in the soil vapor beneath the building floor slab remain elevated. We note that the last indoor air sample collected from the office area of your building contained concentrations of trichloroethylene that exceeded the USEPA screening level. While we believe this result is anomalous, we would like to collect an additional sample from this area to confirm that TCE concentrations in indoor air are below USEPA screening levels. As provided in the above referenced form, it will be necessary for us to continue to monitor indoor air quality periodically until required reductions in sub-slab contaminant concentrations are achieved. The laboratory results for sub-slab soil vapor and indoor air samples collected from your building are presented in Tables 1 and 2, respectively and exceedences of USEPA screening levels are depicted on Figure 1. The USEPA has indicated that indoor air monitoring must be completed at approximately 6-month intervals if additional abatement actions are not completed to reduce sub-slab soil vapor concentrations to less than USEPA screening levels.

REGISTERED COMPANY FOR
ISO 9001
ENGINEERING DESIGN



**CONESTOGA-ROVERS
& ASSOCIATES**

October 23, 2014

Reference No. 038443

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We appreciate the cooperation and tolerance which you have demonstrated. If we do not receive a reply by Friday November 7, 2014, we will assume that access for ongoing indoor air sampling is acceptable and will proceed accordingly. Indeed all of the actions listed in the form will be performed but no further modifications to the abatement systems will be performed unless a sampling event indicates Site-related contaminant concentrations in indoor air exceed USEPA screening standards.

If you have any questions or concerns regarding the above please do not hesitate to contact the undersigned

CONESTOGA-ROVERS & ASSOCIATES

A handwritten signature in blue ink, appearing to read "Adam Loney".

Adam Loney, P. Eng.

BR/cb/1

Encl.

cc: Mr. Steve Renninger, USEPA

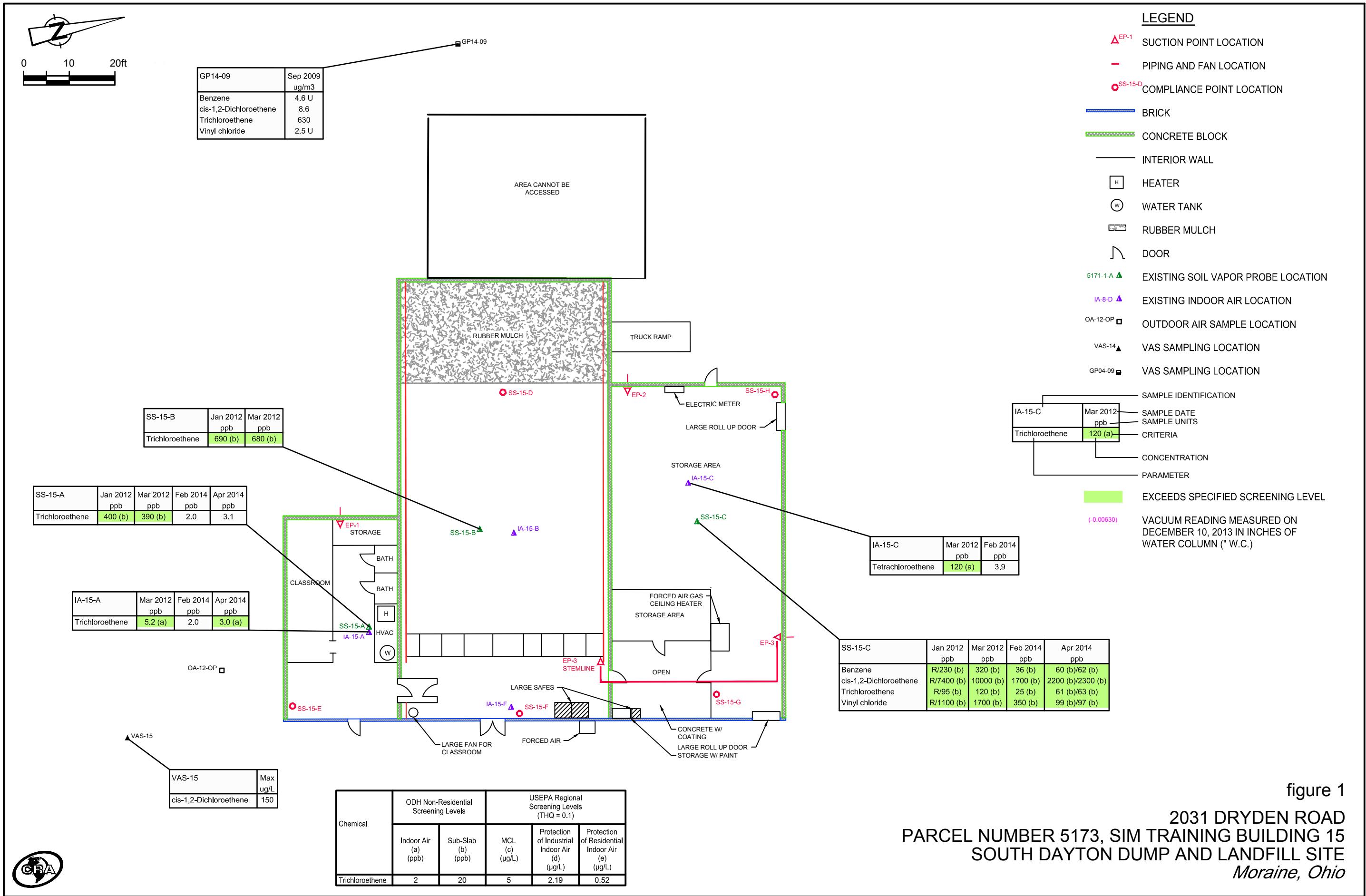


TABLE 1

**SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO**
(Building 15 – Parcel 5173 Building 1)

Sample Location:
Sample ID:
Sample Date:

SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A
SS-38443-011212-JC-074	SS-38443-031312-JC-176	-	SS-38443-021114-GL-002	SS-38443-042414-GL-001
1/12/2012	3/13/2012	8/7/2012	2/11/2014	4/24/2014

Parameter

**Table 1 Non-Residential
Soil Gas Screening Levels**

Volatile Organic Compounds

	Units	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A
1,1,1-Trichloroethane	ppb	-	0.60 U	1.1 U	-	0.030 U
1,1,2,2-Tetrachloroethane	ppb	-	0.68 U	2.2 U	-	0.061 U
1,1,2-Trichloroethane	ppb	-	0.32 U	1.9 U	-	0.054 U
1,1-Dichloroethane	ppb	160	0.60 U	0.93 U	-	0.026 U
1,1-Dichloroethene	ppb	-	0.51 U	1.1 U	-	0.034 U
1,2,4-Trichlorobenzene	ppb	-	0.86 U	3.5 U	-	0.098 U
1,2,4-Trimethylbenzene	ppb	-	0.89 U	2.2 U	-	0.45
1,2-Dibromoethane (Ethylene dibromide)	ppb	-	0.31 U	1.6 U	-	0.10 J
1,2-Dichlorobenzene	ppb	-	0.82 U	2.5 U	-	0.070 U
1,2-Dichloroethane	ppb	-	0.53 U	1.7 U	-	0.047 U
1,2-Dichloroethene (total)	ppb	-	2.7 J	-	-	-
1,2-Dichloropropane	ppb	-	0.24 U	1.9 U	-	0.052 U
1,2-Dichlortetrafluoroethane (CFC 114)	ppb	-	0.55 U	1.1 U	-	0.032 U
1,3,5-Trimethylbenzene	ppb	-	0.87 U	2.3 U	-	1.1
1,3-Butadiene	ppb	-	0.17 U	2.3 U	-	0.064 U
1,3-Dichlorobenzene	ppb	-	0.75 U	2.3 U	-	0.065 U
1,4-Dichlorobenzene	ppb	-	0.75 U	2.3 UJ	-	0.064 U
1,4-Dioxane	ppb	-	1.5 U	2.8 U	-	0.080 U
2,2,4-Trimethylpentane	ppb	-	0.62 U	1.4 U	-	0.060 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	-	0.29 U	7.1 U	-	0.36 J
2-Chlorotoluene	ppb	-	0.80 U	2.2 U	-	0.063 U
2-Hexanone	ppb	-	0.67 U	2.1 U	-	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	-	0.80 U	2.3 U	-	0.13 J
4-Ethyl toluene	ppb	-	0.79 U	2.3 U	-	0.14 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	-	0.44 U	1.6 U	-	0.36 J
Acetone	ppb	-	1.5 J	50 U	-	5.1
Allyl chloride	ppb	-	0.32 U	1.7 U	-	0.048 U
Benzene	ppb	20	0.31 U	2.0 U	-	0.31
Benzyl chloride	ppb	-	0.79 UJ	2.8 U	-	0.082 J
Bromodichloromethane	ppb	-	0.48 U	1.6 U	-	0.044 U
Bromoform	ppb	-	0.32 U	1.7 U	-	0.048 U
Bromomethane (Methyl bromide)	ppb	-	0.21 U	1.1 U	-	0.032 U
Butane	ppb	-	2.2 J	2.3 UJ	-	2.7
Carbon disulfide	ppb	-	1.1 U	1.1 U	-	0.032 J
Carbon tetrachloride	ppb	-	0.56 U	1.4 U	-	0.066 J
Chlorobenzene	ppb	-	0.34 U	1.7 U	-	0.13 J
Chlorodifluoromethane	ppb	-	0.58 U	3.4 J	-	0.36
Chloroethane	ppb	-	0.27 U	1.2 U	-	0.040 J
Chloroform (Trichloromethane)	ppb	800	0.53 U	1.4 U	-	0.038 U
Chloromethane (Methyl chloride)	ppb	-	0.22 U	5.7 U	-	0.48 J
cis-1,2-Dichloroethene	ppb	370	2.7 J	2.1 U	-	0.10 J
cis-1,3-Dichloropropene	ppb	-	0.27 U	2.6 U	-	0.074 U
Cyclohexane	ppb	-	0.67 U	1.4 U	-	0.17 J
Cymene (p-Isopropyltoluene)	ppb	-	0.82 U	2.0 U	-	0.057 U
Dibromochloromethane	ppb	-	0.36 U	1.5 U	-	0.042 U

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

Sample Location:
Sample ID:
Sample Date:

SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A
SS-38443-011212-JC-074	SS-38443-031312-JC-176	-	SS-38443-021114-GL-002	SS-38443-042414-GL-001
1/12/2012	3/13/2012	8/7/2012	2/11/2014	4/24/2014

Parameter	Units	Table 1 Non-Residential Soil Gas Screening Levels					
		SS-15-A SS-38443-011212-JC-074 1/12/2012	SS-15-A SS-38443-031312-JC-176 3/13/2012	SS-15-A -	SS-15-A SS-38443-021114-GL-002 2/11/2014	SS-15-A SS-38443-042414-GL-001 4/24/2014	
Dichlorodifluoromethane (CFC-12)	ppb	-	0.65 U	2.4 U	-	0.45	0.52
Ethylbenzene	ppb	2500	0.38 U	2.4 U	-	0.22	0.068 U
Hexachlorobutadiene	ppb	-	1.1 U	2.8 U	-	0.078 U	0.078 U
Hexane	ppb	-	0.52 J	1.1 U	-	0.52	0.33 J
Isopropyl alcohol	ppb	-	0.63 U	3.9 J	-	1.3 J	0.78 J
Isopropyl benzene	ppb	-	0.53 U	2.1 U	-	0.24 J	0.13 J
m&p-Xylenes	ppb	2000	0.82 U	4.3 U	-	0.51	0.12 U
Methyl methacrylate	ppb	-	0.22 U	2.8 U	-	0.079 U	0.079 UJ
Methyl tert butyl ether (MTBE)	ppb	-	0.27 U	6.1 U	-	0.17 U	0.17 U
Methylene chloride	ppb	-	0.84 J	4.2 J	-	0.62	0.29 J
Naphthalene	ppb	29	1.5 U	3.2 U	-	0.090 U	0.090 U
N-Butylbenzene	ppb	-	0.94 U	1.6 U	-	0.099 J	0.046 U
N-Decane	ppb	-	-	-	-	-	-
N-Dodecane	ppb	-	-	-	-	-	-
N-Heptane	ppb	-	1.3 J	1.7 U	-	0.56	0.067 J
Nonane	ppb	-	-	-	-	-	-
N-Propylbenzene	ppb	-	0.86 U	2.0 U	-	0.12 J	0.056 U
N-Undecane	ppb	-	-	-	-	-	-
Octane	ppb	-	-	-	-	-	-
o-Xylene	ppb	2000	0.38 U	2.2 U	-	0.44	0.061 U
Pentane	ppb	-	-	-	-	-	-
Styrene	ppb	-	0.51 U	2.1 U	-	0.058 U	0.058 U
tert-Butyl alcohol	ppb	-	1.2 U	1.4 U	-	0.19 J	0.24 J
tert-Butylbenzene	ppb	-	0.80 U	2.3 U	-	0.066 U	0.066 U
Tetrachloroethene	ppb	250	7.6	7.1	-	1.5	1.2
Tetrahydrofuran	ppb	-	0.31 U	2.2 U	-	0.22 J	0.15 J
Toluene	ppb	-	1.4 J	1.9 U	-	0.86	0.22
trans-1,2-Dichloroethene	ppb	-	0.55 U	1.8 U	-	0.050 U	0.050 U
trans-1,3-Dichlоропропене	ppb	-	0.34 U	1.7 U	-	0.048 U	0.048 U
Trichloroethene	ppb	20	400	390	-	2.0	3.1
Trichlorofluoromethane (CFC-11)	ppb	-	0.58 U	0.85 U	-	0.22	0.24
Trifluorotrichloroethane (Freon 113)	ppb	-	0.17 U	1.1 U	-	0.065 J	0.077 J
Vinyl bromide (Bromoethene)	ppb	-	0.32 U	1.2 U	-	0.035 U	0.035 U
Vinyl chloride	ppb	20	0.50 U	2.5 U	-	0.071 U	0.071 U
Xylenes (total)	ppb	-	0.38 U	-	-	-	-
Volatile Organic Compounds TICs							
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	-	-	-	-	-	-
1-Ethyl-4-methyl cyclohexane A	ppb	-	-	-	-	-	-
2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene A	ppb	-	-	-	-	-	-
2,6-Dimethylnonane A	ppb	-	-	-	-	-	-
2,6-Dimethyloctane A	ppb	-	-	-	-	-	-
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	-	-	-	-	-	-
Cyclohexane, methyl A	ppb	-	-	-	-	-	-
Heptane, 2,6-dimethyl- A	ppb	-	-	-	-	-	-
Propane A	ppb	-	-	-	-	-	-

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

Sample Location:	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A
Sample ID:	SS-38443-011212-JC-074	SS-38443-031312-JC-176	-	SS-38443-021114-GL-002	SS-38443-042414-GL-001
Sample Date:	1/12/2012	3/13/2012	8/7/2012	2/11/2014	4/24/2014
Parameter	<i>Table 1 Non-Residential Soil Gas Screening Levels</i>				
Units					
trans-1,2-Dimethylcyclohexane A	ppb	-	-	-	-
trans-1,3-Dimethylcyclohexane A	ppb	-	-	-	-
Unknown A	ppb	-	-	-	-
Unknown B	ppb	-	-	-	-
Unknown C	ppb	-	-	-	-
Unknown D	ppb	-	-	-	-
Unknown E	ppb	-	-	-	-
Unknown F	ppb	-	-	-	-
Unknown G	ppb	-	-	-	-
Unknown H	ppb	-	-	-	-
Unknown I	ppb	-	-	-	-
Unknown J	ppb	-	-	-	-
Unknown K	ppb	-	-	-	-
Unknown L	ppb	-	-	-	-
Unknown M	ppb	-	-	-	-
Unknown N	ppb	-	-	-	-
Unknown O	ppb	-	-	-	-
Gases					
Ethane	%	-	-	-	-
Ethene	%	-	-	-	-
Methane	%	0.5	-	-	-
Field Parameters					
Carbon dioxide (Landtec-with charcoal carbon filter)	%	-	-	2.9/3.0	0.9
Carbon dioxide (Landtec-without charcoal carbon filter)	%	-	3.1/2.8	-	-
Lower explosive limit (Landtec-with charcoal carbon filter)	%	-	-	0/0	0
Lower explosive limit (Landtec-without charcoal carbon filter)	%	-	-	-	0
Lower explosive limit (RKI)	%	-	-	0/0	-
Methane, field (Landtec-with charcoal carbon filter)	%	0.5	-	0.0/00.0	0
Methane, field (Landtec-without charcoal carbon filter)	%	0.5	0.0/00.0	-	-
Oxygen (Landtec-with charcoal carbon filter)	%	-	-	16.9/18.7	19.2
Oxygen (Landtec-without charcoal carbon filter)	%	-	18.1/17.6	-	-
Oxygen (RKI)	%	-	-	17.0/18.0	-
PID reading	ppm	-	0.0/0.9	0.00/0.0	8.2

Notes:

- J - Estimated concentration.
- N - Tentatively identified compound.
- R - Rejected.
- U - Not detected at the associated reporting limit.
- Not Applicable

TABLE 1

SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)

Sample Location:	SS-15-B	SS-15-B	SS-15-B	SS-15-C	SS-15-C	SS-15-C
Sample ID:	SS-38443-011212-JC-071	SS-38443-031312-JC-178	-	SS-38443-011212-JC-072	SS-38443-011212-JC-073	SS-38443-031312-JC-180
Sample Date:	1/12/2012	3/13/2012	8/7/2012	1/12/2012	1/12/2012	3/13/2012
Duplicate						
Parameter	Units					
Volatile Organic Compounds						
1,1,1-Trichloroethane	ppb	1.1 U	1.4 U	-	R	8.8 U
1,1,2,2-Tetrachloroethane	ppb	1.2 U	2.9 U	-	R	10 U
1,1,2-Trichloroethane	ppb	0.58 U	2.5 U	-	R	4.8 U
1,1-Dichloroethane	ppb	1.1 U	1.2 U	-	R	8.8 U
1,1-Dichloroethene	ppb	0.91 U	1.5 U	-	R	29 J
1,2,4-Trichlorobenzene	ppb	1.5 U	4.6 U	-	R	13 U
1,2,4-Trimethylbenzene	ppb	1.6 U	3.0 U	-	R	600
1,2-Dibromoethane (Ethylene dibromide)	ppb	0.55 U	2.1 U	-	R	4.5 U
1,2-Dichlorobenzene	ppb	1.5 U	3.3 U	-	R	12 U
1,2-Dichloroethane	ppb	0.94 U	2.2 U	-	R	7.8 U
1,2-Dichloroethene (total)	ppb	130	-	-	R	7600
1,2-Dichloropropane	ppb	0.43 U	2.4 U	-	R	3.5 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	0.97 U	1.5 U	-	R	8.0 U
1,3,5-Trimethylbenzene	ppb	1.6 U	3.1 U	-	R	480
1,3-Butadiene	ppb	0.30 U	3.0 U	-	R	2.5 U
1,3-Dichlorobenzene	ppb	1.3 U	3.1 U	-	R	11 U
1,4-Dichlorobenzene	ppb	1.3 U	3.0 UU	-	R	11 U
1,4-Dioxane	ppb	2.7 U	3.8 U	-	R	22 U
2,2,4-Trimethylpentane	ppb	1.1 U	7.9 J	-	R	9.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	0.52 U	9.4 U	-	R	4.3 U
2-Chlorotoluene	ppb	1.4 U	3.0 U	-	R	12 U
2-Hexanone	ppb	1.2 U	2.7 U	-	R	9.8 U
2-Phenylbutane (sec-Butylbenzene)	ppb	1.4 U	3.0 U	-	R	110
4-Ethyl toluene	ppb	1.4 U	3.1 U	-	R	110
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	0.79 U	2.1 U	-	R	6.5 U
Acetone	ppb	1.4 U	66 U	-	R	72 J
Allyl chloride	ppb	0.58 U	2.3 U	-	R	4.8 U
Benzene	ppb	0.55 U	2.6 U	-	R	230
Benzyl chloride	ppb	1.4 UJ	3.7 U	-	R	320
Bromodichloromethane	ppb	0.85 U	2.1 U	-	R	12 UJ
Bromoform	ppb	0.58 UJ	2.3 U	-	R	7.0 U
Bromomethane (Methyl bromide)	ppb	0.36 U	1.5 U	-	R	25 U
Butane	ppb	0.33 U	3.0 UJ	-	R	3.0 U
Carbon disulfide	ppb	2.0 U	1.5 U	-	R	17 U
Carbon tetrachloride	ppb	1.0 U	1.8 U	-	R	6400
Chlorobenzene	ppb	0.61 U	2.3 U	-	R	10000 J
Chlorodifluoromethane	ppb	1.0 U	2.7 J	-	R	38 J
Chloroethane	ppb	0.49 U	1.6 U	-	R	7.8 U
Chloroform (Trichloromethane)	ppb	8.5	12	-	R	8.3 U
Chloromethane (Methyl chloride)	ppb	0.40 U	7.5 U	-	R	520
cis-1,2-Dichloroethene	ppb	86	130	-	R	8.5 U
cis-1,3-Dichloropropene	ppb	0.49 U	3.5 U	-	R	41 J
Cyclohexane	ppb	1.2 U	1.9 U	-	R	7.8 U
Cymene (p-Isopropyltoluene)	ppb	1.5 U	2.7 U	-	R	3.3 U
Dibromochloromethane	ppb	0.64 U	2.0 U	-	R	7400
						10000
						4.0 U
						1900
						63
						5.3 U
						22 U

TABLE 1

SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)

Sample Location:	SS-15-B	SS-15-B	SS-15-B	SS-15-C	SS-15-C	SS-15-C
Sample ID:	SS-38443-011212-JC-071	SS-38443-031312-JC-178	-	SS-38443-011212-JC-072	SS-38443-011212-JC-073	SS-38443-031312-JC-180
Sample Date:	1/12/2012	3/13/2012	8/7/2012	1/12/2012	1/12/2012	3/13/2012
Parameter	Units					Duplicate
Dichlorodifluoromethane (CFC-12)	ppb	1.2 U	3.2 U	-	R	9.5 U
Ethylbenzene	ppb	0.67 U	3.2 U	-	R	320
Hexachlorobutadiene	ppb	2.0 U	3.7 U	-	R	16 U
Hexane	ppb	0.79 U	1.9 J	-	R	1300
Isopropyl alcohol	ppb	1.1 U	4.6 J	-	R	9.3 U
Isopropyl benzene	ppb	0.94 U	2.8 U	-	R	140
m&p-Xylenes	ppb	1.5 U	5.6 U	-	R	820
Methyl methacrylate	ppb	0.40 U	3.7 U	-	R	3.3 U
Methyl tert butyl ether (MTBE)	ppb	0.49 U	8.0 U	-	R	4.0 U
Methylene chloride	ppb	1.4 U	7.2 J	-	R	17 J
Naphthalene	ppb	2.6 U	4.2 U	-	R	22 U
N-Butylbenzene	ppb	1.7 U	2.2 U	-	R	27 J
N-Decane	ppb	-	-	-	-	1200
N-Dodecane	ppb	-	-	-	-	67 J
N-Heptane	ppb	0.30 U	2.2 U	-	R	3600
Nonane	ppb	-	-	-	-	2900
N-Propylbenzene	ppb	1.5 U	2.6 U	-	R	120
N-Undecane	ppb	-	-	-	-	0.062 U
Octane	ppb	-	-	-	-	2400
o-Xylene	ppb	0.67 U	2.9 U	-	R	710
Pentane	ppb	-	-	-	-	3100
Styrene	ppb	0.91 U	2.7 U	-	R	7.5 U
tert-Butyl alcohol	ppb	2.2 U	1.8 U	-	R	18 U
tert-Butylbenzene	ppb	1.4 U	3.1 U	-	R	12 J
Tetrachloroethene	ppb	1.3 J	2.5 J	-	R	2.8 U
Tetrahydrofuran	ppb	0.55 U	3.0 U	-	R	4.5 U
Toluene	ppb	0.55 U	2.7 J	-	R	3500
trans-1,2-Dichloroethene	ppb	43	59	-	R	150
trans-1,3-Dichloropropene	ppb	0.61 U	2.3 U	-	R	5.0 U
Trichlorethane	ppb	690	680	-	R	95
Trichlorofluoromethane (CFC-11)	ppb	1.0 U	1.1 U	-	R	8.5 U
Trifluorotrichloroethane (Freon 113)	ppb	0.30 U	1.5 U	-	R	2.5 U
Vinyl bromide (Bromoethene)	ppb	0.58 U	1.6 U	-	R	4.8 U
Vinyl chloride	ppb	0.88 U	3.3 U	-	R	1100
Xylenes (total)	ppb	0.67 U	-	-	R	1700
						1500
Volatile Organic Compounds TICs						
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	-	-	-	-	2500 NJ
1-Ethyl-4-methyl cyclohexane A	ppb	-	-	-	-	2500 NJ
2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene A	ppb	-	-	-	-	1600 NJ
2,6-Dimethylnonane A	ppb	-	-	-	-	1300 NJ
2,6-Dimethyloctane A	ppb	-	-	-	-	3400 NJ
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	-	-	-	-	2000 NJ
Cyclohexane, methyl A	ppb	-	-	-	-	9200 NJ
Heptane, 2,6-dimethyl- A	ppb	-	-	-	-	1400 NJ
Propane A	ppb	-	-	-	-	U

TABLE 1

SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)

Sample Location:	SS-15-B	SS-15-B	SS-15-B	SS-15-C	SS-15-C	SS-15-C
Sample ID:	SS-38443-011212-JC-071	SS-38443-031312-JC-178	-	SS-38443-011212-JC-072	SS-38443-011212-JC-073	SS-38443-031312-JC-180
Sample Date:	1/12/2012	3/13/2012	8/7/2012	1/12/2012	1/12/2012	3/13/2012
Duplicate						
Parameter	Units					
trans-1,2-Dimethylcyclohexane A	ppb	-	-	-	-	2500 NJ
trans-1,3-Dimethylcyclohexane A	ppb	-	-	-	-	1500 NJ
Unknown A	ppb	-	-	-	-	3300 NJ
Unknown B	ppb	-	-	-	-	2400 NJ
Unknown C	ppb	-	-	-	-	3200 NJ
Unknown D	ppb	-	-	-	-	2300 NJ
Unknown E	ppb	-	-	-	-	2100 NJ
Unknown F	ppb	-	-	-	-	3600 NJ
Unknown G	ppb	-	-	-	-	2600 NJ
Unknown H	ppb	-	-	-	-	4100 NJ
Unknown I	ppb	-	-	-	-	1600 NJ
Unknown J	ppb	-	-	-	-	1500 NJ
Unknown K	ppb	-	-	-	-	3100 NJ
Unknown L	ppb	-	-	-	-	5300 NJ
Unknown M	ppb	-	-	-	-	1700 NJ
Unknown N	ppb	-	-	-	-	2400 NJ
Unknown O	ppb	-	-	-	-	3500 NJ
Gases						
Ethane	%	-	-	-	-	-
Ethene	%	-	-	-	-	-
Methane	%	0.058 U	-	-	-	-
Field Parameters						
Carbon dioxide (Landtec-with charcoal carbon filter)	%	-	8.1/7.9	9.4	-	2.9/3.3
Carbon dioxide (Landtec-without charcoal carbon filter)	%	8.7/8.3	-	-	3.3/3.2	3.2/3.3
Lower explosive limit (Landtec-with charcoal carbon filter)	%	-	0/0	0	-	18/18
Lower explosive limit (Landtec-without charcoal carbon filter)	%	-	-	0	-	-
Lower explosive limit (RKI)	%	-	0/0	-	-	13/13
Methane, field (Landtec-with charcoal carbon filter)	%	-	0.0/0.0	0	-	0.9/0.8
Methane, field (Landtec-without charcoal carbon filter)	%	0.1/0.1	-	-	1.2/11.1	1.2/11.1
Oxygen (Landtec-with charcoal carbon filter)	%	-	9.1/8.7	9.3	-	1.0/1.1
Oxygen (Landtec-without charcoal carbon filter)	%	9.2/10.9	-	-	5.4/5.3	5.4/5.3
Oxygen (RKI)	%	-	8.1/8.4	-	-	0.7/0.8
PID reading	ppm	0.1/0.3	0.0/0.2	15.1	26.7/37.6	101.2/50.4

Notes:

- J - Estimated concentration.
- N - Tentatively identified compound.
- R - Rejected.
- U - Not detected at the associated reporting limit.
- Not Applicable

TABLE 1

**SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

<i>Sample Location:</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	
<i>Sample ID:</i>	<i>SS-38443-031312-JC-181</i>	<i>SS-38443-021314-GL-004</i>	<i>SS-38443-042414-GL-004</i>	<i>SS-38443-042414-GL-005</i>	
<i>Sample Date:</i>	<i>3/13/2012</i>	<i>2/13/2014</i>	<i>4/24/2014</i>	<i>4/24/2014</i>	
<i>Duplicate</i>					
<i>Parameter</i>	<i>Units</i>				
<i>Volatile Organic Compounds</i>					
1,1,1-Trichloroethane	ppb	-	3.2 U	3.5 U	
1,1,2,2-Tetrachloroethane	ppb	-	6.6 U	7.0 U	
1,1,2-Trichloroethane	ppb	-	5.8 U	6.2 U	
1,1-Dichloroethane	ppb	-	2.8 U	3.0 U	
1,1-Dichloroethene	ppb	-	5.8 J	4.3 J	
1,2,4-Trichlorobenzene	ppb	-	11 U	11 U	
1,2,4-Trimethylbenzene	ppb	-	96	330	
1,2-Dibromoethane (Ethylene dibromide)	ppb	-	4.8 U	5.1 U	
1,2-Dichlorobenzene	ppb	-	7.6 U	8.1 U	
1,2-Dichloroethane	ppb	-	5.1 U	5.4 U	
1,2-Dichloroethene (total)	ppb	-	-	-	
1,2-Dichloropropane	ppb	-	5.6 U	6.0 U	
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	-	3.5 U	3.7 U	
1,3,5-Trimethylbenzene	ppb	-	130	260	
1,3-Butadiene	ppb	-	6.9 U	7.4 U	
1,3-Dichlorobenzene	ppb	-	7.0 U	7.5 U	
1,4-Dichlorobenzene	ppb	-	6.9 U	7.4 U	
1,4-Dioxane	ppb	-	8.7 U	9.2 U	
2,2,4-Trimethylpentane	ppb	-	15 J	24 J	
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	-	22 UJ	23 U	
2-Chlorotoluene	ppb	-	6.8 U	7.3 U	
2-Hexanone	ppb	-	6.3 U	6.7 U	
2-Phenylbutane (sec-Butylbenzene)	ppb	-	33 J	60	
4-Ethyl toluene	ppb	-	31 J	65	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	-	62	5.2 UJ	
Acetone	ppb	-	150 U	160 UJ	
Allyl chloride	ppb	-	5.2 U	5.5 U	
Benzene	ppb	-	36	60	62
Benzyl chloride	ppb	-	21 J	9.0 U	9.4 U
Bromodichloromethane	ppb	-	4.8 U	5.1 U	5.3 U
Bromoform	ppb	-	5.2 U	5.5 U	5.8 U
Bromomethane (Methyl bromide)	ppb	-	3.5 U	3.7 U	3.8 U
Butane	ppb	-	550	580 J	560 J
Carbon disulfide	ppb	-	48 J	360	360
Carbon tetrachloride	ppb	-	4.1 U	4.4 U	4.6 U
Chlorobenzene	ppb	-	110	240	240
Chlorodifluoromethane	ppb	-	4.0 U	4.3 U	4.4 U
Chloroethane	ppb	-	42	48	47
Chloroform (Trichloromethane)	ppb	-	4.1 U	4.4 U	4.6 U
Chloromethane (Methyl chloride)	ppb	-	570	230	230
cis-1,2-Dichloroethene	ppb	-	1700	2200	2300
cis-1,3-Dichloropropene	ppb	-	8.0 U	8.5 U	8.9 U
Cyclohexane	ppb	-	320	440	470
Cymene (p-Isopropyltoluene)	ppb	-	12 J	6.6 U	6.9 U
Dibromochloromethane	ppb	-	4.5 U	4.8 U	5.0 U

TABLE 1

**SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

<i>Sample Location:</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>
<i>Sample ID:</i>	<i>SS-38443-031312-JC-181</i>	<i>SS-38443-021314-GL-004</i>	<i>SS-38443-042414-GL-004</i>	<i>SS-38443-042414-GL-005</i>
<i>Sample Date:</i>	<i>3/13/2012</i>	<i>2/13/2014</i>	<i>4/24/2014</i>	<i>4/24/2014</i>
<i>Duplicate</i>				
<i>Parameter</i>	<i>Units</i>			
Dichlorodifluoromethane (CFC-12)	ppb	-	7.4 U	7.8 U
Ethylbenzene	ppb	-	70	180
Hexachlorobutadiene	ppb	-	8.4 U	9.0 U
Hexane	ppb	-	150	230
Isopropyl alcohol	ppb	-	10 U	11 UJ
Isopropyl benzene	ppb	-	33 J	6.9 U
m&p-Xylenes	ppb	-	130	410
Methyl methacrylate	ppb	-	8.5 U	9.1 UJ
Methyl tert butyl ether (MTBE)	ppb	-	18 U	20 U
Methylene chloride	ppb	-	14 U	15 U
Naphthalene	ppb	-	9.7 U	10 U
N-Butylbenzene	ppb	-	20 J	5.3 U
N-Decane	ppb	-	-	-
N-Dodecane	ppb	-	-	-
N-Heptane	ppb	-	420	830
Nonane	ppb	-	-	-
N-Propylbenzene	ppb	-	27 J	59
N-Undecane	ppb	-	-	-
Octane	ppb	-	-	-
o-Xylene	ppb	-	170	400
Pentane	ppb	-	-	-
Styrene	ppb	-	6.3 U	6.7 U
tert-Butyl alcohol	ppb	-	39 J	220 J
tert-Butylbenzene	ppb	-	7.1 U	7.6 U
Tetrachloroethene	ppb	-	4.3 U	4.6 U
Tetrahydrofuran	ppb	-	6.8 U	7.3 U
Toluene	ppb	-	510	1200
trans-1,2-Dichloroethene	ppb	-	48	71
trans-1,3-Dichloropropene	ppb	-	5.2 U	5.5 U
Trichloroethene	ppb	-	25	61
Trichlorofluoromethane (CFC-11)	ppb	-	2.6 U	2.8 U
Trifluorotrichloroethane (Freon 113)	ppb	-	3.4 U	3.6 U
Vinyl bromide (Bromoethene)	ppb	-	3.8 U	4.0 U
Vinyl chloride	ppb	-	350	99
Xylenes (total)	ppb	-	-	-
<i>Volatile Organic Compounds TICs</i>				
(1alpha,2beta,4beta)-1,2,4-Trimethyl-cyclohexane A	ppb	-	-	-
1-Ethyl-4-methyl cyclohexane A	ppb	-	-	-
2,6,6-Trimethyl-bicyclo[3.1.1]hept-2-ene A	ppb	-	-	-
2,6-Dimethylnonane A	ppb	-	-	-
2,6-Dimethyloctane A	ppb	-	-	-
Cyclohexane, 1-ethyl-2-methyl-, trans- A	ppb	-	-	-
Cyclohexane, methyl A	ppb	-	-	-
Heptane, 2,6-dimethyl- A	ppb	-	-	-
Propane A	ppb	-	-	-

TABLE 1

**SUMMARY OF SUB-SLAB ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

<i>Sample Location:</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>	<i>SS-15-C</i>
<i>Sample ID:</i>	SS-38443-031312-JC-181	SS-38443-021314-GL-004	SS-38443-042414-GL-004	SS-38443-042414-GL-005
<i>Sample Date:</i>	3/13/2012	2/13/2014	4/24/2014	4/24/2014
	<i>Duplicate</i>			
Parameter	Units			
trans-1,2-Dimethylcyclohexane A	ppb	-	-	-
trans-1,3-Dimethylcyclohexane A	ppb	-	-	-
Unknown A	ppb	-	-	-
Unknown B	ppb	-	-	-
Unknown C	ppb	-	-	-
Unknown D	ppb	-	-	-
Unknown E	ppb	-	-	-
Unknown F	ppb	-	-	-
Unknown G	ppb	-	-	-
Unknown H	ppb	-	-	-
Unknown I	ppb	-	-	-
Unknown J	ppb	-	-	-
Unknown K	ppb	-	-	-
Unknown L	ppb	-	-	-
Unknown M	ppb	-	-	-
Unknown N	ppb	-	-	-
Unknown O	ppb	-	-	-
Gases				
Ethane	%	0.21 U	-	-
Ethene	%	0.21 U	-	-
Methane	%	0.97	-	-
Field Parameters				
Carbon dioxide (Landtec-with charcoal carbon filter)	%	2.9/3.3	-	-
Carbon dioxide (Landtec-without charcoal carbon filter)	%	-	-	-
Lower explosive limit (Landtec-with charcoal carbon filter)	%	18/18	-	-
Lower explosive limit (Landtec-without charcoal carbon filter)	%	-	-	-
Lower explosive limit (RKI)	%	13/13	-	-
Methane, field (Landtec-with charcoal carbon filter)	%	0.9/00.8	-	-
Methane, field (Landtec-without charcoal carbon filter)	%	-	-	-
Oxygen (Landtec-with charcoal carbon filter)	%	1.1/1.0	-	-
Oxygen (Landtec-without charcoal carbon filter)	%	-	-	-
Oxygen (RKI)	%	0.7/0.8	-	-
PID reading	ppm	101.2/50.4	-	-

Notes:

- J - Estimated concentration.
- N - Tentatively identified compound.
- R - Rejected.
- U - Not detected at the associated reporting limit.
- Not Applicable

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

Sample Location: OA-15 OA-15 OA-15 IA-15-A IA-15-A IA-15-A
Sample ID: OA-38443-031312-JC-174 OA-38443-021114-GL-006 OA-38443-042414-GL-007 IA-38443-031312-JC-175 IA-38443-021114-GL-001 IA-38443-042414-GL-002
Sample Date: 3/13/2012 2/11/2014 4/24/2014 3/13/2012 2/11/2014 4/24/2014

Parameter *Table 1 Non-Residential*
Units Indoor Air Screening Levels

Volatile Organic Compounds

		OA-15 OA-38443-031312-JC-174 3/13/2012	OA-15 OA-38443-021114-GL-006 2/11/2014	OA-15 OA-38443-042414-GL-007 4/24/2014	IA-15-A IA-38443-031312-JC-175 3/13/2012	IA-15-A IA-38443-021114-GL-001 2/11/2014	IA-15-A IA-38443-042414-GL-002 4/24/2014
1,1,1-Trichloroethane	ppb	-	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	-	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	-	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	-	0.032 U	0.034 U	0.034 U	0.032 U	0.034 U
1,2,4-Trichlorobenzene	ppb	-	0.098 U	0.098 U	0.098 U	0.098 U	0.098 U
1,2,4-Trimethylbenzene	ppb	-	0.063 U	0.063 U	0.075 J	0.45	0.35
1,2-Dibromoethane (Ethylene dibromide)	ppb	-	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	-	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	-	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloropropane	ppb	-	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	-	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	-	0.065 U	0.065 U	0.065 U	0.12 J	0.095 J
1,3-Butadiene	ppb	-	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	-	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	-	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	-	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	-	0.039 U	0.039 U	0.053 J	0.055 J	0.062 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	-	0.38 J	0.21 J	0.37 J	0.85 J	0.59 J
2-Chlorotoluene	ppb	-	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	-	0.058 U	0.058 U	0.058 U	0.058 U	0.061 J
2-Phenylbutane (sec-Butylbenzene)	ppb	-	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	-	0.066 U	0.066 U	0.066 U	0.33 J	0.13 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	-	0.045 U	0.41 J	0.073 J	3.7	1.0
Acetone	ppb	-	2.2 J	1.5 J	2.5 J	23	6.2
Allyl chloride	ppb	-	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	0.068 J	0.18 J	0.16 J	0.46	0.29
Benzyl chloride	ppb	-	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	-	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	-	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	-	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	-	0.75	1.2	1.1 J	2.7 J	1.7
Carbon disulfide	ppb	-	0.031 U	0.031 U	0.031 U	0.088 J	0.031 U
Carbon tetrachloride	ppb	-	0.071 J	0.047 J	0.076 J	0.096 J	0.070 J
Chlorobenzene	ppb	-	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	-	0.49	0.27	0.26	0.94 J	0.35
Chloroethane	ppb	-	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	0.038 U	0.038 U	0.038 U	0.077 J	0.038 U
Chloromethane (Methyl chloride)	ppb	-	0.60	0.51	0.71	1.1	0.55
cis-1,2-Dichloroethene	ppb	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	-	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	-	0.040 U	0.059 J	0.040 U	0.33 J	0.068 J
Cymene (p-Isopropyltoluene)	ppb	-	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb	-	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	-	0.41	0.46	0.47	0.56	0.50

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

Sample Location:		OA-15	OA-15	OA-15	IA-15-A	IA-15-A	IA-15-A
Sample ID:		OA-38443-031312-JC-174	OA-38443-021114-GL-006	OA-38443-042414-GL-007	IA-38443-031312-JC-175	IA-38443-021114-GL-001	IA-38443-042414-GL-002
Sample Date:		3/13/2012	2/11/2014	4/24/2014	3/13/2012	2/11/2014	4/24/2014
Parameter							
	Units	Table 1 Non-Residential Indoor Air Screening Levels					
Ethylbenzene	ppb	250	0.068 U	0.068 U	0.073 J	0.15 J	0.13 J
Hexachlorobutadiene	ppb	-	0.078 U				
Hexane	ppb	-	0.098 J	0.17 J	0.15 J	2.5	0.32 J
Isopropyl alcohol	ppb	-	0.15 J	0.35 J	0.19 J	24	3.3 J
Isopropyl benzene	ppb	-	0.060 U				
m&p-Xylenes	ppb	200	0.12 U	0.19 J	0.23	0.52	0.44
Methyl methacrylate	ppb	-	0.079 U	0.079 U	0.079 UJ	0.079 U	0.079 UJ
Methyl tert butyl ether (MTBE)	ppb	-	0.17 U				
Methylene chloride	ppb	-	0.17 J	0.24 J	0.24 J	0.31 J	0.56
Naphthalene	ppb	2.9	0.090 U	0.090 U	0.090 U	0.25 J	0.090 U
N-Butylbenzene	ppb	-	0.046 U	0.046 U	0.046 U	0.068 J	0.13 J
N-Heptane	ppb	-	0.047 U	0.073 J	0.073 J	0.23 J	0.24 J
N-Propylbenzene	ppb	-	0.056 U				
o-Xylene	ppb	200	0.061 U	0.062 J	0.088 J	0.21	0.17 J
Styrene	ppb	-	0.058 U	0.058 U	0.058 U	0.12 J	0.058 U
tert-Butyl alcohol	ppb	-	0.046 J	0.059 J	0.067 J	0.28 J	0.47 J
tert-Butylbenzene	ppb	-	0.066 U				
Tetrachloroethene	ppb	25	0.040 U	0.040 U	0.040 U	0.84	2.3
Tetrahydrofuran	ppb	-	0.063 U	0.063 U	0.063 U	0.063 U	0.23 J
Toluene	ppb	-	0.16 J	0.33	0.40	3.6	0.66
trans-1,2-Dichloroethene	ppb	-	0.050 U				
trans-1,3-Dichloropropene	ppb	-	0.048 U				
Trichloroethene	ppb	2	0.036 U	0.036 U	0.036 U	5.2	2.0
Trichlorofluoromethane (CFC-11)	ppb	-	0.20	0.20	0.21	0.35	0.21
Trifluorotrichloroethane (Freon 113)	ppb	-	0.060 J	0.058 J	0.070 J	0.090 J	0.065 J
Vinyl bromide (Bromoethene)	ppb	-	0.035 U				
Vinyl chloride	ppb	2	0.071 U				
Field Parameters							
Carbon dioxide (Landtec-with charcoal carbon filter)	%	-	0.2/0.1	-	-	0.1/0.1	-
Lower explosive limit (Landtec-with charcoal carbon filter)	%	-	0/0	-	-	0/0	-
Lower explosive limit (RKI)	%	-	0/0	-	-	0/0	-
Methane, field (Landtec-with charcoal carbon filter)	%	0.05	0.0/0.0	-	-	0.0/0.0	-
Oxygen (Landtec-with charcoal carbon filter)	%	-	21.8/21.2	-	-	21.7/21.0	-
Oxygen (RKI)	%	-	20.9/20.9	-	-	20.9/20.9	-
PID reading	ppm	-	0.0/0.0	-	-	0.0/0.0	-

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

- - Not Applicable

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

<i>Sample Location:</i>	IA-15-B	IA-15-C	IA-15-C
<i>Sample ID:</i>	IA-38443-031312-JC-177	IA-38443-031312-JC-179	IA-38443-021314-GL-005
<i>Sample Date:</i>	3/13/2012	3/13/2012	2/13/2014

<i>Parameter</i>	<i>Units</i>	<i>IA-15-B</i>	<i>IA-15-C</i>	<i>IA-15-C</i>
Volatile Organic Compounds				
1,1,1-Trichloroethane	ppb	0.030 U	0.12 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	0.061 U	0.24 U	0.061 U
1,1,2-Trichloroethane	ppb	0.054 U	0.22 U	0.054 U
1,1-Dichloroethane	ppb	0.026 U	0.10 U	0.026 U
1,1-Dichloroethene	ppb	0.032 U	0.13 U	0.034 U
1,2,4-Trichlorobenzene	ppb	0.098 U	0.39 U	0.098 U
1,2,4-Trimethylbenzene	ppb	0.34	0.74 J	0.38
1,2-Dibromoethane (Ethylene dibromide)	ppb	0.044 U	0.18 U	0.044 U
1,2-Dichlorobenzene	ppb	0.070 U	0.28 U	0.070 U
1,2-Dichloroethane	ppb	0.047 U	0.19 U	0.047 U
1,2-Dichloropropane	ppb	0.052 U	0.21 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	0.032 U	0.13 U	0.032 U
1,3,5-Trimethylbenzene	ppb	0.088 J	0.26 U	0.10 J
1,3-Butadiene	ppb	0.31 J	0.26 U	0.064 U
1,3-Dichlorobenzene	ppb	0.065 U	0.26 U	0.065 U
1,4-Dichlorobenzene	ppb	0.064 UJ	0.26 UJ	0.064 U
1,4-Dioxane	ppb	0.080 U	0.32 U	0.23 J
2,2,4-Trimethylpentane	ppb	0.039 U	0.85 J	0.26 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	0.57 J	2.3 J	0.74 J
2-Chlorotoluene	ppb	0.063 U	0.25 U	0.063 U
2-Hexanone	ppb	0.058 U	0.23 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	0.064 U	0.26 U	0.064 U
4-Ethyl toluene	ppb	0.13 J	0.47 J	0.17 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	11	6.1	0.54
Acetone	ppb	6.1	10 J	3.5 J
Allyl chloride	ppb	0.048 U	0.19 U	0.048 U
Benzene	ppb	0.51	0.51 J	0.63
Benzyl chloride	ppb	0.078 U	0.31 U	0.078 U
Bromodichloromethane	ppb	0.044 U	0.18 U	0.044 U
Bromoform	ppb	0.048 U	0.19 U	0.048 U
Bromomethane (Methyl bromide)	ppb	0.032 U	0.13 U	0.032 U
Butane	ppb	1.2 J	8.9 J	14
Carbon disulfide	ppb	0.095 J	0.12 U	0.37 J
Carbon tetrachloride	ppb	0.082 J	0.15 U	0.056 J
Chlorobenzene	ppb	0.049 U	0.20 U	0.049 U
Chlorodifluoromethane	ppb	0.97 J	1.5 J	0.37
Chloroethane	ppb	0.035 U	0.14 U	0.037 J
Chloroform (Trichloromethane)	ppb	0.038 U	0.15 U	0.038 U
Chlormethane (Methyl chloride)	ppb	0.81	0.64 U	0.61
cis-1,2-Dichloroethene	ppb	0.060 U	0.24 U	0.060 U
cis-1,3-Dichloropropene	ppb	0.074 U	0.30 U	0.074 U
Cyclohexane	ppb	0.13 J	4.1	0.53
Cymene (p-Isopropyltoluene)	ppb	0.057 U	0.23 U	0.057 U
Dibromochloromethane	ppb	0.042 U	0.17 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	0.54	0.72 J	0.42

TABLE 2

**SUMMARY OF INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO
(Building 15 – Parcel 5173 Building 1)**

Sample Location:	IA-15-B	IA-15-C	IA-15-C
Sample ID:	IA-38443-031312-JC-177	IA-38443-031312-JC-179	IA-38443-021314-GL-005
Sample Date:	3/13/2012	3/13/2012	2/13/2014

Parameter	Units	IA-15-B	IA-15-C	IA-15-C
Ethylbenzene	ppb	0.12 J	0.43 J	0.39
Hexachlorobutadiene	ppb	0.078 U	0.31 U	0.078 U
Hexane	ppb	0.61	25	2.7
Isopropyl alcohol	ppb	1.3 J	6.1 J	0.75 J
Isopropyl benzene	ppb	0.060 U	0.24 U	0.060 U
m&p-Xylenes	ppb	0.43	1.6	1.5
Methyl methacrylate	ppb	0.079 U	0.32 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	0.17 U	0.68 U	0.17 U
Methylene chloride	ppb	0.29 J	1.4 J	0.22 J
Naphthalene	ppb	0.090 U	0.36 U	0.090 U
N-Butylbenzene	ppb	0.046 U	0.18 U	0.046 U
N-Heptane	ppb	0.097 J	1.4 J	0.67
N-Propylbenzene	ppb	0.056 U	0.22 U	0.071 J
o-Xylene	ppb	0.17 J	0.62 J	0.46
Styrene	ppb	0.083 J	0.23 U	0.058 U
tert-Butyl alcohol	ppb	0.12 J	0.15 U	0.048 J
tert-Butylbenzene	ppb	0.066 U	0.26 U	0.066 U
Tetrachloroethene	ppb	1.4	120	3.9
Tetrahydrofuran	ppb	0.063 U	0.25 U	0.39 J
Volume	ppb	1.3	15	3.1
trans-1,2-Dichloroethene	ppb	0.050 U	0.20 U	0.050 U
trans-1,3-Dichloropropene	ppb	0.048 U	0.19 U	0.048 U
Trichloroethene	ppb	0.13 J	1.6	0.59
Trichlorofluoromethane (CFC-11)	ppb	0.24	0.30 J	0.21
Trifluorotrichloroethane (Freon 113)	ppb	0.078 J	0.12 U	0.058 J
Vinyl bromide (Bromoethene)	ppb	0.035 U	0.14 U	0.035 U
Vinyl chloride	ppb	0.071 U	0.28 U	0.071 U
Field Parameters				
Carbon dioxide (Landtec-with charcoal carbon filter)	%	0.0/0.1	0/0.8	-
Lower explosive limit (Landtec-with charcoal carbon filter)	%	0/0	0/0	-
Lower explosive limit (RKI)	%	0/0	0/0	-
Methane, field (Landtec-with charcoal carbon filter)	%	0.0/0.0	0.0/0.0	-
Oxygen (Landtec-with charcoal carbon filter)	%	21.4/21.2	21.1/20.1	-
Oxygen (RKI)	%	20.9/20.9	20.9/20.8	-
PID reading	ppm	0.0/0.0	0.2/0.0	-

Notes:

J - Estimated concentration.

U - Not detected at the associated reporting limit.

- - Not Applicable

Attachment



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
CINCINNATI, OHIO 45268

May 8, 2013

Tim Hoffman
Dinsmore & Shohl LLP
2031 Dryden Road (Building 15)
Moraine, Ohio 45439

Jeff Pedro
SIM Trainer
2031 Dryden Road
Moraine, Ohio 45439

Re: South Dayton Dump & Landfill Site
Vapor Abatement System Acceptance Form

As part of a vapor intrusion investigation in 2012 at the South Dayton Dump & Landfill (SDDL) Superfund Site located in Moraine, Ohio, Conestoga-Rovers & Associates (CRA), in working with United States Environmental Protection Agency (U.S. EPA), completed sub-slab and indoor air sampling at your property. The purpose of this letter is to inform you that trichloroethylene (TCE) was observed to be present in the sub-slab at a concentration as high as 690 parts per billion by volume (ppbv), which is greater than the Ohio Department of Health (ODH) sub-slab TCE screening level of 20 ppbv. In addition, TCE was observed in the indoor air at a concentration as high as 5.2 ppbv, which is greater than the Agency for Toxic Substances and Disease Registry (ATSDR) and ODH indoor air TCE screening level of 2 ppbv. In addition, methane was observed at 0.97% in the sub-slab, which is greater than the ODH sub-slab screening level of 0.5%. Vapor intrusion is occurring at your property and you are eligible to receive an intrinsically safe vapor abatement system to prevent vapor intrusion from occurring at your property.

While it is not known whether the identified vapor intrusion or potential vapor intrusion is tied to the historical activities at the SDDL Site, several companies believed to have disposed of waste at the SDDL Site and U.S. EPA are proceeding proactively with respect to the data and the responsive measures detailed in this letter.

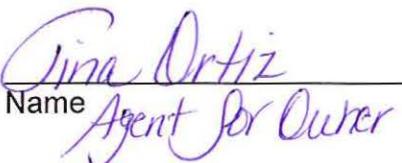
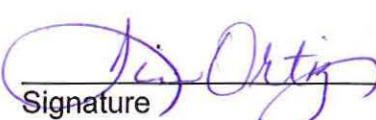
As part of the U.S. EPA time-critical removal action at the SSDL Site, the potentially responsible parties (PRPs) at the SDDL Site propose to install a vapor abatement system at properties where vapor intrusion is occurring or has the potential to occur. If the system is accepted by the property owner, the PRPs will purchase the vapor abatement system and pay for the basic costs of installation. The PRPs' contractor, CRA, will design the system to vent the chemical vapors to concentrations less than the recommended indoor air screening levels established by ODH. The vapor abatement system includes PVC piping and an inline fan(s) to vent vapors from below the property foundation to above the roofline.

Following the installation of the vapor abatement system, the following will be performed or provided:

- 1) **Performance Air Sampling** – To ensure that the indoor air quality is below the ODH screening levels, CRA, on behalf of the PRPs, will conduct indoor air sampling at 30, 180 and 365 days after the system installation;
- 2) **Information Binder** – CRA, on behalf of the PRPs, will provide the property owner and the tenant (if necessary) a vapor abatement system information binder that will include a description of the vapor abatement system, photographs, historical sampling data, contact and fan warranty information;
- 3) **Annual Inspection** – Following successful performance sampling of the vapor abatement system, annual inspections will be conducted by CRA to ensure that the system is working properly.
- 4) **Electricity Stipend** – The PRPs will provide an electricity stipend (to the individual or company that pays for the electricity at the property) to off-set the cost of operating the system. The stipend will be a one-time payment, calculated based on assumed 5-year operation of the system, in the amount of \$1,910. The need for an additional stipend will be evaluated at the end of the 5-year period based on the need for continued operation of the system.

Please sign below to indicate that you accept the described vapor abatement system or that you decline the described vapor abatement system for your property:

I agree to and **accept** the described system and the terms set forth above:

  5/15/13
Name Gina Ortiz Signature Date

I have reviewed the above information and **decline** the described system:

Name _____ Signature _____ Date _____